

REFRIGERATOR-FREEZER TYPE WAREHOUSE**Publication number:** JP9178323**Publication date:** 1997-07-11**Inventor:** YAMASHITA TAKASHI; YOSHIDA TADASHI;
WATANABE KOJI; WATANABE MITSUO**Applicant:** HITACHI PLANT ENG & CONSTR CO**Classification:**- international: **F25D17/08; F25D17/08;** (IPC1-7): F25D17/08

- European:

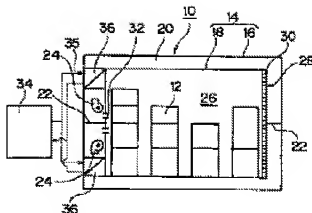
Application number: JP19950351378 19951226**Priority number(s):** JP19950351378 19951226

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Abstract of JP9178323

PROBLEM TO BE SOLVED: To improve a cooling efficiency by a method wherein a wall structure of a warehouse is formed into a double-walled structure, an air passage is formed within the wall structure and an inner space of the warehouse is cooled under double coolings by air flowing from an air blowing-out port and by a radiation cooling performed from the inner wall surface.

SOLUTION: Refrigerant cooled by a freezer 34 is circulated within a refrigerant pipe 35 and sent to a cooling device 36. Then, air passed from a warehouse space 26 through an air suction port 32 and returned back to it is heat exchanged to become cooling air. The cooling air flows in a wall 14, i.e., between an outer wall 16 and an inner wall 18 and flows under a uniform and fine minute air speed in the warehouse space 26 of the main body 10 through an air blowing-out port 28 having deflectors 30. During this operation, cooling air is circulated between the outer wall 16 and the inner wall 18 of the main body 10 so as to attain a radiation cooling for the warehouse space 26 and prevention of entering of heat into the main body 10. In addition, it is possible to improve a cooling efficiency through circulation of cooling air into the warehouse space 26.

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